

GenCore version 5.1.4\_p5\_4578  
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OM nucleic - nucleic search, using sw model

Run on: March 3, 2003, 21:30:10 ; Search time 4788 Seconds  
(without alignments)  
10606.599 Million cell updates/sec

Title: US-10-017-621-3

Perfect score: 1745

Sequence: 1 tggagcagcgtaaaggatg.....gttcacctgccactgtgcc 1745

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 2054640 seqs, 14551402878 residues

Total number of hits satisfying chosen parameters: 841850

Minimum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

GenEmbl:\*

1: gb\_ba:\*  
2: gb\_htg:\*  
3: gb\_in:\*  
4: gb\_on:\*  
5: gb\_ov:\*  
6: gb\_pat:\*  
7: gb\_ph:\*  
8: gb\_pl:\*  
9: gb\_pt:\*  
10: gb\_ro:\*  
11: gb\_sts:\*  
12: gb\_sy:\*  
13: gb\_un:\*  
14: gb\_vl:\*  
15: em\_ba:\*  
16: em\_fun:\*  
17: em\_hum:\*  
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19: em\_mu:\*  
20: em\_or:\*  
21: em\_ov:\*  
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23: em\_pat:\*  
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25: em\_pl:\*  
26: em\_ro:\*  
27: em\_sts:\*  
28: em\_un:\*  
29: em\_vi:\*  
30: em\_htg\_hum:\*  
31: em\_htg\_inv:\*  
32: em\_htg\_other:\*  
33: em\_htg\_mus:\*  
34: em\_htg\_pln:\*  
35: em\_htg\_rpd:\*  
36: em\_htg\_mam:\*  
37: em\_htg\_vrt:\*  
38: em\_sy:\*  
39: em\_htgo\_hum:\*  
40: em\_htgo\_mus:\*  
41: em\_htgo\_other:\*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match %	Length	DB	ID	Description
1	23.8	1.4	49	9	HSKCAK	X76171 H.sapiens m
2	22.8	1.3	50	6	A93721	A93721 Sequence 8
3	22.4	1.3	50	6	A93722	A93722 Sequence 9
4	22.2	1.3	47	6	I84671	I84671 Sequence 5
5	22	1.3	50	6	AX159452	AX159452 Sequence
6	21.6	1.2	31	6	AX248673	AX248673 Sequence
7	21.4	1.2	42	6	AX182243	AX182243 Sequence
8	21.4	1.2	42	6	AX382049	AX382049 Sequence
9	21.4	1.2	46	6	AR032544	AR032544 Sequence
10	21.4	1.2	46	6	AR209208	AR209208 Sequence
11	21.4	1.2	46	6	I29284	I29284 Sequence 15
12	21.4	1.2	46	6	I90958	I90958 Sequence 15
13	21	1.2	31	6	AX248015	AX248015 Sequence
14	21	1.2	46	6	AX186238	AX186238 Sequence
15	20.8	1.2	46	6	A98791	A98791 Sequence 24
16	20.6	1.2	21	6	AX153998	AX153998 Sequence
17	20.6	1.2	45	6	AR022074	AR022074 Sequence
18	20.6	1.2	45	6	I55009	I55009 Sequence 33
19	20.6	1.2	45	6	I92864	I92864 Sequence 38
20	20.4	1.2	48	6	AR079723	AR079723 Sequence
21	20.4	1.2	48	6	AR081253	AR081253 Sequence
22	20.4	1.2	48	6	AR170613	AR170613 Sequence
23	20.2	1.2	40	6	AR200128	AR200128 Sequence
24	20.2	1.2	40	6	I68030	I68030 Sequence 13
25	20.2	1.2	45	6	AX225269	AX225269 Sequence
26	20.2	1.2	49	6	AR083818	AR083818 Sequence
27	20.2	1.2	49	9	S82032	S82032 WTI-Wilms'
28	20.2	1.2	50	6	AX233404	AX233404 Sequence
29	20	1.1	36	6	A07324	A07324 Synthetic D
30	20	1.1	36	6	I12501	I12501 Sequence 18
31	20	1.1	41	6	BD007098	BD007098 Targeted
32	20	1.1	44	6	A07325	A07325 Synthetic D
33	20	1.1	44	6	I12502	I12502 Sequence 19
34	20	1.1	46	6	E52011	E52011 IL-6 recept
35	19.8	1.1	46	6	AX036348	AX036348 Sequence
36	19.8	1.1	46	6	AX036350	AX036350 Sequence
37	19.8	1.1	48	6	BD012118	BD012118 Vitamin D
38	19.8	1.1	48	23	BD004595	BD004595 Vitamin D
39	19.6	1.1	39	6	AX452342	AX452342 Sequence
40	19.6	1.1	42	6	AR153233	AR153233 Sequence
41	19.6	1.1	45	6	I17261	I17261 Sequence 27
42	19.6	1.1	45	6	I47720	I47720 Sequence 19
43	19.6	1.1	50	6	AR032970	AR032970 Sequence
44	19.6	1.1	50	6	AR209634	AR209634 Sequence
45	19.6	1.1	50	6	AX199648	AX199648 Sequence

# ALIGNMENTS

RESULT 1  
HSKCAK  
LOCUS  
DEFINITION  
ACCESSION  
VERSION  
KEYWORDS  
SOURCE  
ORGANISM  
REFERENCE  
AUTHORS  
TITLE  
JOURNAL

HSKCAK  
H.sapiens mRNA for Cdk activating kinase.  
X76171  
GI:429096  
activating kinase; protein kinase.  
Homo sapiens.  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
1 (bases 1 to 49)  
Direct Submission  
Submitted (08-NOV-1993) F.L. Hall, Childrens Hospital Los Angeles,

49 bp mRNA linear PRI 08-AUG-1995



JOURNAL	Patent: WO 0142441-A 53 14-JUN-2001;									
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Matches	25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;									
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LOCUS	AX382049	Sequence 53 from Patent WO0206497.		42 bp	DNA	linear	PAT 18-MAR-2002			
DEFINITION										
ACCESSION	AX382049									
VERSION	AX382049.1	GI:19576871								
KEYWORDS	synthetic construct.									
SOURCE	synthetic construct									
ORGANISM	artificial sequences.									
REFERENCE	1									
AUTHORS	Reddy,V.S. and Sadhu,L.									
TITLE	Transplastomic plants									
JOURNAL	Patent: WO 0206497-A 53 24-JAN-2002;									
FEATURES	International Centre for Genetic Engineering and Biotechnology (ITB)									
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Matches	25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;									
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Db	35	ACGTACGGTCTCGGCGACCTTCGATCTGCA	5							
RESULT 9										
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LOCUS	AR032544	Sequence 156 from patent US 5869241.		46 bp	DNA	linear	PAT 29-SEP-1999			
DEFINITION										
ACCESSION	AR032544									
VERSION	AR032544.1	GI:5948149								
KEYWORDS	Unknown.									
SOURCE	Unknown.									
ORGANISM	Unclassified.									
REFERENCE	1 (bases 1 to 46)									
AUTHORS	Edwards,C.A., Cantor,C.R., Andrews,B.M., Turin,L.M. and Fry,K.E.									
TITLE	Method of determining DNA sequence preference of a DNA-binding molecule									
JOURNAL	Patent: US 5869241-A 156 09-FEB-1999;									
FEATURES	Location/Qualifiers									
source	1. .46									
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Query Match	1.2%; Score 21.4; DB 6; Length 46;									

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Matches 28; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

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Db 2 GCGGTGGATTGGACGCTCCACCAATCACAGGCGAGCCGC 40

RESULT 10
AR209208 AR209208 46 bp DNA PAT 20-JUN-2002
LOCUS
DEFINITION Sequence 156 from patent US 6384208.
ACCESSION AR209208
VERSION AR209208.1 GI:21510563
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 46)
AUTHORS Edwards,C.A., Cantor,C.R., Andrews,B.M., Turin,L.M. and Fry,K.E.
TITLE Sequence directed DNA binding molecules compositions and methods
JOURNAL Patent: US 6384208-A 156 07-MAY-2002;
FEATURES Location/Qualifiers
source
BASE COUNT 9 a 14 c 16 g 7 t
ORIGIN

Query Match 1.2%; Score 21.4; DB 6; Length 46;
Best Local Similarity 71.8%; Pred. No. 2.8e+06;
Matches 28; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 1641 GCGGCTGGAGGATGCCACACCCCTCACAGGCGAGCCCC 1679
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Db 2 GCGGTGGATTGGACGCTCCACCAATCACAGGCGAGCCGC 40

RESULT 11
AR29284 AR29284 46 bp DNA PAT 06-FEB-1997
LOCUS
DEFINITION Sequence 156 from patent US 5578444.
ACCESSION AR29284
VERSION AR29284.1 GI:1820075
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 46)
AUTHORS Edwards,C.A., Cantor,C.R., Andrews,B.M., Turin,L.M. and Fry,K.E.
TITLE Sequence-directed DNA-binding molecules compositions and methods
JOURNAL Patent: US 5578444-A 156 26-NOV-1996;
FEATURES Location/Qualifiers
source
BASE COUNT 9 a 14 c 16 g 7 t
ORIGIN

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Best Local Similarity 71.8%; Pred. No. 2.8e+06;
Matches 28; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

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Db 2 GCGGTGGATTGGACGCTCCACCAATCACAGGCGAGCCGC 40

RESULT 12
I90958 I90958 46 bp DNA PAT 01-DEC-1998
LOCUS
DEFINITION Sequence 156 from patent US 5726014.
ACCESSION I90958
VERSION I90958.1 GI:3935428
KEYWORDS
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SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 46)
AUTHORS Edwards,C.A., Cantor,C.R., Andrews,B.M. and Turin,L.M.
TITLE Screening assay for the detection of DNA-binding molecules
JOURNAL Patent: US 5726014-A 156 10-MAR-1998;
FEATURES Location/Qualifiers
source
BASE COUNT 9 a 14 c 16 g 7 t
ORIGIN

Query Match 1.2%; Score 21.4; DB 6; Length 46;
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RESULT 13
AX248015 AX248015 31 bp DNA PAT 28-SEP-2001
LOCUS
DEFINITION Sequence 94 from Patent WO0166800.
ACCESSION AX248015
VERSION AX248015.1 GI:15862638
KEYWORDS human.
SOURCE
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 31)
AUTHORS Cargill,M., Ireland,J.S. and Lander,E.S.
TITLE Human single nucleotide polymorphisms
JOURNAL Patent: WO 0166800-A 94 13-SEP-2001;
FEATURES Location/Qualifiers
source
BASE COUNT 5 a 9 c 8 g 8 t 1 others
ORIGIN

Query Match 1.2%; Score 21; DB 6; Length 31;
Best Local Similarity 77.4%; Pred. No. 3.5e+06;
Matches 24; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 577 GTCAGCCTATCTGAGATTGGCTTTGGGAAC 607
| | | | | | | | | | | | | | | | | | | | | |
Db 1 GCCTCCCTGTGACACMTTGGCTTTGGGAAC 31

RESULT 14
AX186238/c AX186238 46 bp DNA PAT 06-AUG-2001
LOCUS
DEFINITION Sequence 1933 from Patent WO0142467.
ACCESSION AX186238
VERSION AX186238.1 GI:15137666
KEYWORDS human.
SOURCE
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 46)
AUTHORS Schlegel,R., Deeds,J., Berger,A. and Zhao,X.
TITLE Genes, compositions, kits, and methods for identification,
assessment, prevention, and therapy of cervical cancer
JOURNAL Patent: WO 0142467-A 1933 14-JUN-2001;
FEATURES Location/Qualifiers
source
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/organism="Homo sapiens"  
/db\_xref="taxon:9606"

BASE COUNT 7 a 13 c 18 g 6 t 2 others  
ORIGIN

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Matches 27; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 550 AAGCCCTCAGCGCGCTCCGTCGTCGTCAGCCTATC 587  
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Db 41 AAGCGTCTCGAGCCGCCNCCGCGGAGTGCTCCTATC 4

RESULT 15

A98791/C A98791 46 bp DNA linear PAT 26-JAN-2000  
LOCUS  
DEFINITION Sequence 24 from Patent WO9910358.

ACCESSION A98791  
VERSION A98791.1 GI:6781812

KEYWORDS .

SOURCE unidentified.

ORGANISM unidentified.

REFERENCE 1 (bases 1 to 46)

AUTHORS Hegemann,P.

TITLE METHOD FOR PRODUCING NUCLEIC ACID POLYMERS

JOURNAL Patent: WO 9910358-A 24 04-MAR-1999;

HEGEMANN PETER (DE)

FEATURES

source

1. .46

/organism="unidentified"

/db\_xref="taxon:32644"

BASE COUNT 9 a 13 c 16 g 8 t

ORIGIN

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Best Local Similarity 78.1%; Pred. No. 3.9e+06;  
Matches 25; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 500 TGCCTGAGGGCTACCTGGAGAGCTGACCCCTC 531  
||||| ||||| ||| || ||| ||| ||  
Db 37 TGCCCGAGGGCTACGTGCAGAGCGCACCATC 6

Search completed: March 4, 2003, 00:06:28  
Job time : 4794 secs



GenCore version 5.1.4.p5\_4578  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 3, 2003, 19:29:35 ; Search time 427 Seconds  
(without alignments)  
9203.131 Million cell updates/sec

Title: US-10-017-621-3  
Perfect score: 1745  
Sequence: 1 tggagcagcgtataagatg.....gttcacctgccacttgatcc 1745

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 2185239 seqs, 1125999159 residues

Total number of hits satisfying chosen parameters: 2166140

Minimum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
C 1	24.8	1.4	50	22 AAL34335	Human SNP oligonuc
2	22.4	1.3	33	24 ABA04099	Human Cdk5 related
C 3	22.4	1.3	33	24 ABA04100	Human Cdk5 related
4	22	1.3	31	22 AAI30264	Human single nucle
5	22	1.3	50	22 AAI75839	Human silent SNP c
6	21.4	1.2	31	22 AAI29606	Human single nucle
C 7	21.4	1.2	42	22 AAH22523	PCR primer SR53 fo
C 8	21.4	1.2	42	24 AAD29563	ifng coding region
9	21.4	1.2	46	15 AAQ69406	Human H1 histone g

10	21.4	1.2	45	18 AAT63868	Human H1 histone g
11	21.4	1.2	46	20 AAX17156	Test sequence from
12	21.4	1.2	46	24 ABR82647	DNA binding molecu
13	21	1.2	21	22 AAH62195	PCTAIRE-1 polymorp
C 14	21	1.2	46	22 AAL70659	Human cervical can
C 15	21	1.2	50	22 AAL34286	Human SNP oligonuc
C 16	20.8	1.2	46	20 AAX22932	DE19736591 primer
17	20.6	1.2	45	16 AAT07598	RT-PCR primer/prob
18	20.6	1.2	45	16 AAT00670	Primer 143 for hum
C 19	20.6	1.2	50	22 AAL27875	Human SNP oligonuc
C 20	20.4	1.2	32	24 AAT72077	Xcds1 degenerate p
C 21	20.4	1.2	48	14 AAQ50230	HIV pol INS mutage
C 22	20.2	1.2	36	19 AAV46356	PCR primer for ser
23	20.2	1.2	40	16 AAQ76190	Primer for amplify
24	20.2	1.2	40	18 AAT91033	Human 4-1BB 3' PCR
25	20.2	1.2	40	24 ABL54053	Human cytokine rec
26	20.2	1.2	41	24 ABK48869	Human proton-adeno
27	20.2	1.2	41	24 ABK48870	Human proton-adeno
C 28	20.2	1.2	45	22 AAD17287	Human prostate spe
29	20.2	1.2	49	20 AAZ31379	MUSIGHAEI Mouse Ig
30	20.2	1.2	50	19 AAV59147	Reverse PCR primer
C 31	20.2	1.2	50	22 AAS43538	Corneodesmosin sin
32	20	1.1	41	19 AAV37843	CD4+ human T-lymph
C 33	20	1.1	41	24 AAL43819	Human large protei
34	20	1.1	46	21 AAZ91309	IL-6R and IL-6 fus
35	20	1.1	47	21 AAZ67885	Human map-related
36	20	1.1	50	22 AAL29783	Human SNP oligonuc
37	20	1.1	50	22 AAL34645	Human SNP oligonuc
38	19.8	1.1	46	21 AAC82589	Hammerhead ribozym
39	19.8	1.1	48	18 AAT76056	Human A2b adenosin
40	19.8	1.1	48	20 AAX53859	Human adenosine A2
41	19.8	1.1	48	21 AAF19434	Human adenosine A2
42	19.8	1.1	48	21 AAX33302	Low adenosine anti
43	19.8	1.1	48	21 AAA03704	Human adenosine A1
C 44	19.8	1.1	48	22 AAH74232	Nucleotide sequenc
45	19.6	1.1	31	22 AAI30029	Human single nucle

ALIGNMENTS

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AAL34335/c	
ID AAL34335 standard; DNA; 50 BP.	
XX	
AC AAL34335;	
XX	
DT 24-JAN-2002 (first entry)	
XX	
DE Human SNP oligonucleotide #7543.	
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KW Immunosuppressive; immunostimulatory; antiinflammatory; cytostatic;	
KW neuroprotective; antimicrobial; gene therapy; vaccine; amylase; cancer;	
KW amyloid protein; angiotensin; apoptosis related protein; cadherin;	
KW cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;	
KW complement related protein; cytochrome; cytochrome; interferon;	
KW interleukin; G-protein coupled receptor; thioesterase; inflammation;	
KW multifactorial disease; autoimmune disease; infection;	
KW nervous system disease; ss.	
XX	
OS Homo sapiens.	
XX	
PN WO200147944-A2.	
XX	
PD 05-JUL-2001.	
XX	
PF 28-DEC-2000; 2000WO-US35498.	
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PR 28-DEC-1999; 99US-0173419.	
PR 27-DEC-2000; 2000US-0173419.	
XX	
PA (CURA-) CURAGEN CORP.	
XX	





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Query Match 1.3%; Score 22.4; DB 24; Length 33;
Best Local Similarity 81.2%; Pred. No. 2.8e+04;
Matches 26; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1018 GAGCTCAAGCTGGCTGACTTTGGCTGGCCCG 1049
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Db 32 GAGCTGAATTTGGCTAATTTGGCTGGCTCG 1

RESULT 4
AAI30264
ID AAI30264 standard; DNA; 31 BP.
XX
AC AAI30264;
XX
XX 18-OCT-2001 (first entry)
XX
DE Human single nucleotide polymorphism (SNP) 97.
XX
KW Human; resequencing; genotype; disease; forensic; paternity testing;
KW single nucleotide polymorphism; SNP; ss.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Variation replace(16.T)
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XX
XX WO200166800-A2.
XX
PD 13-SEP-2001.
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XX 07-MAR-2001; 2001WO-US07268.
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PR 07-MAR-2000; 2000US-0187510.
PR 22-MAY-2000; 2000US-0206129.
XX
PA (WHED ) WHITEHEAD INST BIOMEDICAL RES.
XX
PI Cargill M, Ireland JS, Lander ES;
XX
XX WPI; 2001-522952/57.
XX
XX Nucleic acid molecules from the human genome which include polymorphic
XX sites, useful in methods for predicting the presence, absence or
XX severity of a particular phenotype or disorder (e.g. diabetes)
XX associated with a particular genotype -
XX
XX Claim 1; Page 75; 145pp; English.
XX
XX The invention relates to the identification of nucleic acid molecules
XX (AAI29513-AAI31314) from the human genome which include polymorphic sites
XX which can predispose individuals to disease. Various genes from a number
XX of individuals were resequenced and single nucleotide polymorphisms
XX (SNPs) in these genes discovered. The method is useful for predicting the
XX presence, absence or severity of a particular phenotype or disorder (e.g.
XX diabetes) associated with a particular genotype. The nucleic acids
XX containing the polymorphic sites may be useful in forensics and paternity
XX testing.
XX
XX Sequence 31 BP; 8 A; 11 C; 8 G; 4 T; 0 other;

Query Match 1.3%; Score 22; DB 22; Length 31;
Best Local Similarity 83.3%; Pred. No. 3.4e+04;
Matches 25; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 979 GACCTCAAGCCCGACAGACTGCTCATCAAC 1008
      ||| ||||| ||||| ||||| ||||| ||
Db 2 GACATCAAGCCCCAGAACCTGCTGTGGAC 31
```

```
RESULT 5
AAI75839
ID AAI75839 standard; DNA; 50 BP.
XX
AC AAI75839;
XX
XX 09-NOV-2001 (first entry)
XX
DE Human silent SNP containing nucleic acid SEQ:2780.
XX
XX Human; single nucleotide polymorphism; SNP; genome; gene therapy;
XX protein therapy; vaccine; probe; diagnostic assay; detection;
XX quantitation; restorative therapy; polymorphic; ds.
XX
XX OS Homo sapiens.
XX
XX WO200140521-A2.
XX
XX 07-JUN-2001.
XX
XX 30-NOV-2000; 2000WO-US32758.
XX
XX 30-NOV-1999; 99US-0168138.
XX 29-NOV-2000; 2000US-0726173.
XX
XX (CURA-) CURAGEN CORP.
XX
XX Shimkets RA, Leach M;
XX
XX WPI; 2001-356160/37.
XX
XX Polymorphic nucleic acid sequences, useful in genetic testing and
XX therapy -
XX
XX Claim 1; Page 901; 2653pp; English.
XX
XX AAI73060 to AAI79867 represent isolated human polymorphic polynucleotide
XX sequences (I), which contain single nucleotide polymorphisms (SNPs).
XX AAM53114 to AAM53329 represent peptides related to human polymorphic
XX polynucleotide sequences. The sequences can be used in gene and protein
XX therapy, and in vaccine production. (I) and the polypeptides encoded by
XX them may be used in the prevention, diagnosis and treatment of diseases
XX associated with inappropriate expression of polymorphic polypeptides.
XX For example, (I) may be used to treat disorders by rectifying mutations
XX or deletions in a patient's genome that affect the activity of
XX polypeptides by expressing inactive proteins or to supplement the
XX patients own production of polypeptide. Additionally, (I) and its
XX complementary sequences may also be used as DNA probes in diagnostic
XX assays to detect and quantitate the presence of similar nucleic acids
XX in samples, and therefore which patients may be in need of restorative
XX therapy. The polypeptides encoded by (I) may be used as antigens in the
XX production of antibodies specific for polymorphic polypeptides. The
XX antibodies may also be used to down regulate expression and activity.
XX The antibodies may also be used as diagnostic agents for detecting the
XX presence of polymorphic polypeptides in samples.
XX
XX Sequence 50 BP; 7 A; 22 C; 13 G; 8 T; 0 other;

Query Match 1.3%; Score 22; DB 22; Length 50;
Best Local Similarity 73.7%; Pred. No. 4.2e+04;
Matches 28; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 1642 CGGCTGGAGGATGCCACACCCCTCACAGGCGACCC 1679
      ||||| ||| ||||| ||||| ||||| ||||| |||||
Db 11 CTGCTTGAGCGCTGCCACACCCCTCTCTGCTGGGCCCC 48

RESULT 6
AAI29606
ID AAI29606 standard; DNA; 31 BP.
XX
XX AC AAI29606;
XX
```

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DT 18-OCT-2001 (first entry)
XX Human single nucleotide polymorphism (SNP) PCTAIRE3 1.
DE Human; resequence; genotype; disease; forensic; paternity testing;
KW single nucleotide polymorphism; SNP; ss.
XX Homo sapiens.
XX Key Location/Qualifiers
FH Variation replace(16,C)
FT /*tag= a
FT /standard_name= "single nucleotide polymorphism"
XX
PN WO200166800-A2.
XX 13-SEP-2001.
XX 07-MAR-2001; 2001WO-US07268.
XX 07-MAR-2000; 2000US-0187510.
PR 22-MAY-2000; 2000US-0206129.
XX (WHED ) WHITEHEAD INST BIOMEDICAL RES.
XX Cargill M, Ireland JS, Lander ES;
PI WPI; 2001-522952/57.
DR
XX Nucleic acid molecules from the human genome which include polymorphic
PT sites, useful in methods for predicting the presence, absence or
PT severity of a particular phenotype or disorder (e.g. diabetes)
PT associated with a particular genotype -
XX Claim 1; Page 34; 145pp; English.
XX The invention relates to the identification of nucleic acid molecules
CC (AAI29513-AAI31314) from the human genome which include polymorphic sites
CC which can predispose individuals to disease. Various genes from a number
CC of individuals were resequenced and single nucleotide polymorphisms
CC (SNPs) in these genes discovered. The method is useful for predicting the
CC presence, absence or severity of a particular phenotype or disorder (e.g.
CC diabetes) associated with a particular genotype. The nucleic acids
CC containing the polymorphic sites may be useful in forensics and paternity
XX testing.
XX Sequence 31 BP; 6 A; 9 C; 8 G; 8 T; 0 other;
SQ
Query Match 1.2%; Score 21.4; DB 22; Length 31;
Best Local Similarity 80.6%; Pred. No. 4.9e+04;
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
QY 577 GTCACCTATCTGAGATTGGGTTGGGAAC 607
DB 1 GCCTCCCTGTCAGACATTGGCTTTGGGAAC 31
RESULT 7
AAH22523/C
ID AAH22523 standard; DNA; 42 BP.
XX AAH22523;
XX
XX 22-AUG-2001 (first entry)
XX PCR primer SR53 for amplifying a ifnG coding region.
DE Transplastome; plastome; plastid; chloroplast; transgene; plant;
KW ifnG; PCR primer; ss.
XX Synthetic.
XX WO200142441-A2.
PN

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XX 14-JUN-2001.
PD
XX 08-DEC-2000; 2000WO-EP12446.
PF
XX 08-DEC-1999; 99GB-0029075.
PR
PR 14-JUL-2000; 2000GB-0017369.
XX (ITGE-) INT CENT GENETIC ENG & BIOTECHNOLOGY.
XX Reddy S, Sadhu L, Shukla V, Ferraiolo G;
PI WPI; 2001-381671/40.
XX
XX Obtaining a stable transplastome for producing a transplastomic cell,
PT plant or seed, comprises transforming a recipient plastome with a
PT polynucleotide comprising a 5' and 3' sequence homologous to the
PT recipient -
XX Example 12; Page 127; 128pp; English.
XX The invention relates to a method of obtaining a stable transplastome,
CC by transforming a recipient plastome (RP) with a polynucleotide having a
CC 5' sequence homologous to a region of RP, and joined to it, a sequence
CC heterologous to RP comprising a coding region operably linked to
CC regulatory region capable of securing expression of coding region in the
CC plastid and joined to it, and a 3' sequence homologous to a region of RP.
CC The method is useful for obtaining a transplastomic plastid, by
CC transforming a plastome within a plastid such as proplastid, amyloplast,
CC chromoplast, etioplast or leucoplast, preferably chloroplast. The method
CC is useful for obtaining a transplastomically expressed protein. The
CC method provides high, uniform, reliable expression of transgenes in
CC plants, with stable inheritance of the trait by avoiding the potential
CC for the dangerous spread of transgenes to the ecosystem. The present
CC sequence represents a PCR primer for amplifying a ifnG coding region,
CC used in generating expression vectors for ifnG in chloroplasts.
XX Sequence 42 BP; 15 A; 10 C; 11 G; 6 T; 0 other;
SQ
Query Match 1.2%; Score 21.4; DB 22; Length 42;
Best Local Similarity 80.6%; Pred. No. 5.6e+04;
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
QY 270 ACGTGTGCTCCTGGGAACTTCGTTCTGCA 300
DB 35 ACGTACGGGTCTCTGGCGACCTTCGATCTGCA 5
RESULT 8
AAD29563/C
ID AAD29563 standard; DNA; 42 BP.
XX AAD29563;
XX
XX 07-MAY-2002 (first entry)
DT
XX ifnG coding region DNA amplifying PCR primer, SR53.
DE Transgenic plant; transplastomic plant; medicament; PCR primer; ss.
XX Unidentified.
OS
XX WO200206497-A2.
PN
XX 24-JAN-2002.
PD
XX 13-JUL-2001; 2001WO-EP08132.
PF
XX 14-JUL-2000; 2000GB-0017397.
PR (ITGE-) INT CENT GENETIC ENG & BIOTECHNOLOGY.
XX Reddy VS, Sadhu L;
PI

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PS Claim 6; Column 177-178; 264pp; English.

XX The sequences given in AAT63713-4312 represent duplex DNA's which act

CC as target regions in the method of the invention. The method for

CC altering the binding characteristics of a DNA-binding protein to duplex

CC DNA comprises contacting the duplex DNA with a small molecule which

CC binds sequence-specifically to a target region, where, when the small

CC molecule is bound to the target region, it is adjacent to, but not

CC overlapping by more than 4 bp, a binding site for a DNA-binding protein.

CC The small molecule is added at a concentration effective to alter the

CC binding of the DNA binding protein, pref. TFIIID, to its binding site on

CC the duplex DNA. The binding of the small molecule may inhibit or

CC enhance the binding of the DNA-binding protein to its binding site. The

CC compounds isolated using this method are potentially useful as

CC therapeutic agents for treatment of any disease which involves a

CC specific DNA sequence, e.g. cancer, or inherited genetic disorders etc.

CC The method is suitable for screening large biological or chemical

CC libraries and allows determination of sequence-specific and relative

CC affinities of known DNA-binding agents for different DNA sequences.

CC The design of these duplex DNA's allows a single DNA:protein interaction

CC to be used for screening sequence-specific, or preferential, DNA binding

CC proteins that recognise almost any possible sequence (see also AAT49539-74).

XX

SQ Sequence 46 BP; 9 A; 14 C; 16 G; 7 T; 0 other;

Query Match 1.2%; Score 21.4; DB 18; Length 46;

Best Local Similarity 71.8%; Pred. No. 5.8e+04;

Matches 28; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 1641 GCGGCTGGAGGATGCCACACCCCTCAGAGGCGAGCC 1679

||||| | ||| || |||| ||||| ||||| ||

DB 2 GCGGTGGATTGGAGCTCCACCAATCAGGCGAGCGCC 40

RESULT 11

AAAX17156

ID AAAX17156 standard; DNA; 46 BP.

XX

AC AAAX17156;

XX

XX

DT 06-MAY-1999 (first entry)

XX

DE Test sequence from human H1 histone gene FNC16.

XX

XX Test sequence; DNA-binding molecule; screening sequence; human;

KW nucleic acid amplification; target; viral; ds.

XX

XX Homo sapiens.

OS

XX

PN US5869241-A.

XX

XX

PD 09-FEB-1999.

XX

XX

PF 07-JUN-1995; 95US-0475228.

XX

XX

PR 20-DEC-1993; 93US-0171389.

PR 27-JUN-1991; 91US-0723618.

PR 23-DEC-1992; 92US-0996783.

PR 17-SEP-1993; 93US-0123936.

PR 07-JUN-1995; 95US-0475228.

XX

PA (GENE-) GENELABS TECHNOLOGIES INC.

XX

XX Andrews BM, Cantor CR, Edwards CA, Fry KE, Turin LM;

PI

XX WPI; 1999-152755/13.

DR

XX Determination of DNA sequence preference of a DNA-binding molecule -

PT based on inhibition of binding of protein to oligonucleotide

PT sequence attached to test sequence

XX

PS Claim 3; Columns 179-180; 270pp; English.

XX Sequences AAAX17001 to AAAX17600 represent specifically claimed target

CC test sequences that are used in the method of the invention of

CC determining the DNA sequence preference of a DNA-binding molecule. The

CC method comprises: (i) adding a test molecule and a DNA-binding protein to

CC a mixture of duplex DNA test oligonucleotides, each of the test

CC oligonucleotides having a test sequence adjacent to a screening sequence,

CC where the screening sequence binds to the DNA-binding protein with a

CC binding affinity that is independent of the DNA sequence of the test

CC sequence, and where the mixture of duplex DNA test oligonucleotides

CC includes several test sequences; (ii) incubating the test molecule, the

CC mixture of duplex DNA test oligonucleotides and the DNA-binding protein

CC for a time sufficient to permit binding of the test molecule to test

CC sequences in the duplex DNA; (iii) separating unbound test

CC oligonucleotides from test oligonucleotides bound to binding protein;

CC (iv) amplifying the unbound test oligonucleotides; (v) repeating steps

CC (ii) to (iv); (vi) isolating the amplified test oligonucleotides; and

CC (vii) sequencing the isolated test oligonucleotides. Test sequences

CC AAAX17001-X17481 and AAAX17600 correspond to promoter targets for human

CC genes and test sequences AAAX17482-X17599 correspond to promoter targets

CC for viral genes.

XX

SQ Sequence 46 BP; 9 A; 14 C; 16 G; 7 T; 0 other;

Query Match 1.2%; Score 21.4; DB 20; Length 46;

Best Local Similarity 71.8%; Pred. No. 5.8e+04;

Matches 28; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 1641 GCGGCTGGAGGATGCCACACCCCTCAGAGGCGAGCC 1679

||||| | ||| || |||| ||||| ||||| ||

DB 2 GCGGTGGATTGGAGCTCCACCAATCAGGCGAGCGCC 40

RESULT 12

ABK82647

ID ABK82647 standard; DNA; 46 BP.

XX

AC ABK82647;

XX

XX

DT 27-AUG-2002 (first entry)

XX

DE DNA binding molecule screening method test sequence #156.

XX

XX DNA binding molecule screening; inhibition of transcription;

KW infection; human immunodeficiency virus; HIV; parasite; cancer;

KW cardiovascular; respiratory; gastrointestinal; endocrine; metabolic;

KW rheumatic; immunological; haematological; neurological;

KW psychiatric; dermatological; ophthalmological; musculo-skeletal;

XX urogenital disorder; ss.

XX

OS Synthetic.

XX

PN US6384208-B1.

XX

XX

PD 07-MAY-2002.

XX

XX

PF 15-JUL-1999; 99US-0354947.

XX

XX

PR 20-DEC-1993; 93US-0171389.

PR 07-JUN-1995; 95US-0482080.

PR 27-JUN-1991; 91US-0723618.

PR 23-DEC-1992; 92US-0996783.

PR 17-SEP-1993; 93US-0123936.

XX

PA (GENE-) GENELABS TECHNOLOGIES INC.

XX

XX Edwards CA, Cantor CR, Andrews BM, Turin LM, Fry KE;

PI

XX WPI; 2002-442819/47.

DR

XX Decreasing transcriptional activity of genes for treating infections or

PT cancer, by administration of an agent that binds to two non-overlapping

PT regions of the gene -

```

XX PS Example 15; SEQ ID No 156; 98pp; English.
XX CC
XX CC The invention relates to a method of decreasing transcriptional activity
XX CC in a duplex deoxyribonucleic acid (DNA) template (T1) comprising
XX CC contacting (T1) with a binding agent comprising at least one small duplex
XX CC DNA-binding molecule (T2) coupled to at least one other small duplex-
XX CC binding molecule that binds to a non-overlapping region of target
XX CC sequence (TS). The method is useful for inhibiting transcription of a
XX CC range of disease-related genes for treating infections (by viruses,
XX CC including human immunodeficiency virus, bacteria, fungi, protozoa
XX CC and parasites), cancer, cardiovascular, respiratory, gastrointestinal,
XX CC endocrine/metabolic, rheumatic/immunological, haematological,
XX CC neurological, psychiatric, dermatological, ophthalmological,
XX CC musculo-skeletal, genetic or urogenital disorders. The method provides
XX CC sequence-specific inhibition of transcription of pathological genes
XX CC without affecting transcription of cellular genes regulated by the same
XX CC transcription factor, and can be applied to regulation of any gene.
XX CC ABK82492-ABK83155 represent DNA binding molecule test sequences used in
XX CC the method of the invention.
XX SQ Sequence 46 BP; 9 A; 14 C; 16 G; 7 T; 0 other;

Query Match 1.2%; Score 21.4; DB 24; Length 46;
Best Local Similarity 71.8%; Pred. No. 5.8e+04;
Matches 28; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 1641 GCGGCTGGAGGATGCCACACCCCTCACAGGGCAGCC 1679
DB 2 CCGGTGGATTGGCGCTCCACCAATCACAGGGCAGCC 40

RESULT 13
AAH62195
ID AAH62195 standard; DNA; 21 BP.
XX AC AAH62195;
XX DT 12-SEP-2001 (first entry)
XX DE PCTAIRE-1 polymorphism containing DNA fragment #96.
XX KW Single nucleotide polymorphism; SNP; human; cancer; inflammation;
XX OS heart disease; paternity testing; forensic science; ds.
XX FH Homo sapiens.
XX FT Key Location/Qualifiers
XX FT Variation replace(11,G)
XX FT /*tag= a
XX FT /standard_name= "single nucleotide polymorphism"
XX PN WO200138576-A2.
XX PD 31-MAY-2001.
XX PF 17-NOV-2000; 2000WO-US31639.
XX PR 24-NOV-1999; 99US-0167334.
XX PA (WHED ) WHITEHEAD INST BIOMEDICAL RES.
XX PI Cargill M, Ireland JS, Lander ES;
XX DR WPI; 2001-367705/38.
XX PT New nucleic acid segments of the human genome, particularly from genes
XX PT including polymorphic sites, for phenotype correlation, forensics,
XX PT paternity testing, medicine and genetic analysis -
XX PS Claim 1; Page 37; 80pp; English.
XX SQ DNA sequences AAH62100 - AAH62688 represent segments of human genes which

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CC contain single nucleotide polymorphisms (SNPs). A method is included in
CC the invention for analysing a nucleic acid sample, which consists of
CC determining the base occupying any one of the polymorphic sites given in
CC the SNP containing sequences. The nucleotide sequences can be used in the
CC diagnosis or monitoring of diseases, such as cancer, inflammation, heart
CC diseases, diseases of the cardiovascular system, and infection by
CC microorganisms. The oligonucleotides are also useful in the manufacture
CC of a medicament for the treatment or prophylaxis of the diseases, and as
CC a pharmaceutical. SNP containing oligonucleotides are useful in
CC applications such as phenotype correlation, forensics, paternity testing,
CC medicine and genetic analysis.
XX SQ Sequence 21 BP; 9 A; 4 C; 6 G; 2 T; 0 other;

Query Match 1.2%; Score 21; DB 22; Length 21;
Best Local Similarity 100.0%; Pred. No. 5.4e+04;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 702 CAAGGAGATCAGACTGGAACA 722
DB 1 CAAGGAGATCAGACTGGAACA 21

RESULT 14
AAH70659/C
ID AAH70659 standard; cDNA; 46 BP.
XX AC AAH70659;
XX DT 19-SEP-2001 (first entry)
XX DE Human cervical cancer marker nucleic acid 1933.
XX KW Cervical cancer; cytostatic; pre-malignant condition; gene therapy; ss.
XX OS Homo sapiens.
XX PN WO200142467-A2.
XX PD 14-JUN-2001.
XX PF 08-DEC-2000; 2000WO-US33312.
XX PR 08-DEC-1999; 99US-0169681.
XX PR 21-DEC-1999; 99US-0171350.
XX PR 14-MAR-2000; 2000US-0189315.
XX PR 12-MAY-2000; 2000US-0203791.
XX PR 09-JUN-2000; 2000US-0210600.
XX PR 21-JUL-2000; 2000US-0220114.
XX PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX PI Schlegel R, Deeds J, Berger A, Zhao X;
XX DR WPI; 2001-375006/39.
XX PT New isolated nucleic acid for diagnosing and treating cervical cancer
XX PT and for assessing and detecting compounds for treating the cancer -
XX PS Claim 1; Page 415; 1051pp; English.
XX CC The invention relates to novel genes (AAH68727-AAH73383) associated with
XX CC cervical cancer with cytostatic activity. The nucleic acids and encoded
XX CC polypeptides are useful: to assess if a patient is afflicted with
XX CC cervical cancer or has a pre-malignant condition; to monitor the
XX CC progression of cervical cancer or a premalignant condition in a patient;
XX CC and to select and/or assess the efficacy of a compound or therapy for
XX CC inhibiting cervical cancer in a patient. The nucleic acids may also be
XX CC useful for gene therapy.
XX SQ Sequence 46 BP; 7 A; 13 C; 18 G; 6 T; 2 other;

Query Match 1.2%; Score 21; DB 22; Length 46;

```

Best Local Similarity 71.1%; Pred. No. 7.3e+04;  
Matches 27; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 208 GAGCAGATAGCCTGGATGAGAGTGGTGGTGGTGGCGGCGAGTGAC 252  
||||| ||| ||||| | | || | ||||| |||  
Db 50 GAGCAGAGAGGAGCGGATGGCGGCGGCGGCGGAGGCGAGCGAC 6

Qy 550 AAGCCCTCAGCGCGCTCCGTCGTGTCAGCCTATC 587  
|||| ||| || ||||| ||| || |||||  
Db 41 AAGCGTCTCTGCAGCGCCGCCGCGAGTGCTCCTATC 4

Search completed: March 3, 2003, 22:46:23  
Job time : 431 secs

## RESULT 15

AAL34286/c

ID AAL34286 standard; DNA: 50 BP.

XX

AC AAL34286;

XX

DT 24-JAN-2002 (first entry)

XX

DE Human SNP oligonucleotide #7494.

XX

KW Immunosuppressive; immunostimulatory; antiinflammatory; cytostatic;  
neuroprotective; antimicrobial; gene therapy; vaccine; amylase; cancer;  
amyloid protein; angiopeptin; apoptosis related protein; cadherin;  
cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;  
complement related protein; cytochrome; kinesin; cytokine; interferon;  
interleukin; G-protein coupled receptor; thioesterase; inflammation;  
multifactorial disease; autoimmune disease; infection;  
nervous system disease; ss.

XX

OS Homo sapiens.

XX

PN WO200147944-A2.

XX

PD 05-JUL-2001.

XX

PF 28-DEC-2000; 2000WO-US35498.

XX

PR 28-DEC-1999; 99US-0173419.

XX

PT 27-DEC-2000; 2000US-0173419.

XX

PA (CURA-) CURAGEN CORP.

XX

PI Shimkets RA, Leach M;

XX

DR WPI; 2001-465210/50.

XX

Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases,  
oncogenes and histones, useful for diagnosing and treating, e.g.  
cancer, autoimmune diseases and infections

XX

PS Claim 1; Page 3547; 4143pp; English.

XX

CC The present invention relates to oligonucleotides encoding polymorphic  
variants of proteins related to amylases, amyloid proteins, angiopeptin,  
CC apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,  
CC histones, kinases, colony stimulating factors, complement related  
CC proteins, cytochromes, kinesins, cytokines, interferons, interleukins,  
CC G-protein coupled receptors and thioesterases. The present sequence is  
CC one such oligonucleotide. The oligonucleotides and the peptides encoded  
CC by them may be used in the prevention, diagnosis and treatment of  
CC diseases associated with inappropriate expression of the proteins listed  
CC above. Disorders that may be prevented, diagnosed and/or treated include  
CC multifactorial diseases with a genetic component, such as autoimmune  
CC diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,  
CC systemic lupus erythematosus and Grave's disease), inflammation, cancer  
CC (e.g. cancers of the bladder, brain, breast, colon and kidney,  
CC leukaemia), diseases of the nervous system and an infection of pathogenic  
CC organisms.

XX

SQ Sequence 50 BP; 1 A; 27 C; 11 G; 11 T; 0 other;

## Query Match

Best Local Similarity 1.2%; Score 21; DB 22; Length 50;

Matches 30; Conservative 0; Mismatches 15; Indels 0; Gaps 0;



Db 2 GGACGAATCCACCATGGGTGGTCCACACTCCTGCTGCTTCTG 44

RESULT 2

PCR-US95-13830-5

Sequence 5, Application PC/TUS9513830

GENERAL INFORMATION:

APPLICANT: Genentech, Inc.

APPLICANT: New England Deaconess Hospital Corp.

TITLE OF INVENTION: Methods and Kits Using Macrophage Stimulating

TITLE OF INVENTION: Protein

NUMBER OF SEQUENCES: 10

CORRESPONDENCE ADDRESS:

ADDRESSEE: Genentech, Inc.

STREET: 460 Point San Bruno Blvd

CITY: South San Francisco

STATE: California

COUNTRY: USA

ZIP: 94080

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: winpatin (Genentech)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT/US95/13830

FILING DATE:

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: Marschang, Diane L.

REGISTRATION NUMBER: 35,600

REFERENCE/DOCKET NUMBER: P0912PCT

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415/225-5416

TELEFAX: 415/952-9881

TELEX: 910/371-7168

INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:

LENGTH: 47 base pairs

TYPE: Nucleic Acid

STRANDEDNESS: Single

TOPOLOGY: Linear

PCR-US95-13830-5

Query Match 1.3%; Score 22.2; DB 5; Length 47;

Best Local Similarity 69.8%; Pred. No. 5.8e+03;

Matches 30; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 241 GCGGCGAGTACCTGGAGAGGCCCCACACGTCGTCCTG 283

Db 2 GGACGAATCCACCATGGGTGGTCCACACTCCTGCTGCTTCTG 44

RESULT 3

US-08-507-426C-9/c

Sequence 9, Application US/08507426C

Patent No. 6265634

GENERAL INFORMATION:

APPLICANT: Lenee, Philippe

TITLE OF INVENTION: POLYRIBOZYME CAPABLE OF CONFERRING ON PLANTS RESISTANCE

TITLE OF INVENTION: TO VIRUSES AND RESISTANT PLANTS PRODUCING THIS

TITLE OF INVENTION: POLYRIBOZYME

FILE REFERENCE: 43944-A-PCT-US

CURRENT APPLICATION NUMBER: US/08/507,426C

CURRENT FILING DATE: 1995-10-25

PRIOR APPLICATION NUMBER: 43944-A-PCT-US

PRIOR FILING DATE: 1995-10-25

NUMBER OF SEQ ID NOS: 14

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 9

LENGTH: 44

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: Synthetic

OTHER INFORMATION: ribozymes and portions thereof

US-08-507-426C-9

Query Match 1.2%; Score 21.8; DB 4; Length 44;

Best Local Similarity 70.7%; Pred. No. 7.2e+03;

Matches 29; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 1559 CCGTCATGCTCCTCAGCAGCGCCAGCTTCCGCGTGTG 1599

Db 42 CCTGTGGAGCACTCAGCACTCCTGCTTTCGCGCTGCTG 2

RESULT 4

US-08-171-389-156

Sequence 156, Application US/08171389

Patent No. 5578444

GENERAL INFORMATION:

APPLICANT: Edwards, Cynthia A.

APPLICANT: Cantor, Charles R.

APPLICANT: Andrews, Beth M.

APPLICANT: Turin, Lisa M.

APPLICANT: Fry, Kirk E.

TITLE OF INVENTION: Sequence-Directed DNA Binding

TITLE OF INVENTION: Molecules, Compositions and Methods

NUMBER OF SEQUENCES: 641

CORRESPONDENCE ADDRESS:

ADDRESSEE: Genelabs Technologies, Inc.

STREET: 505 Penobscot Drive

CITY: Redwood City

STATE: CA

COUNTRY: USA

ZIP: 94063

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/171,389

FILING DATE:

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/123,936

FILING DATE: 17-SEP-1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/996,783

FILING DATE: 23-DEC-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/723,618

FILING DATE: 27-JUN-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/081,070

FILING DATE: 22-JUN-1993

ATTORNEY/AGENT INFORMATION:

NAME: Fabian, Gary R.

REGISTRATION NUMBER: 33,875

REFERENCE/DOCKET NUMBER: 4600-0175/G19P3

TELECOMMUNICATION INFORMATION:

TELEPHONE: (415) 324-0880

TELEFAX: (415) 324-0960

INFORMATION FOR SEQ ID NO: 156:

SEQUENCE CHARACTERISTICS:

LENGTH: 46 base pairs

TYPE: nucleic acid

STRANDEDNESS: double

TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)

HYPOTHETICAL: NO

ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: Human H1 histone gene FNC16

US-08-171-389-156



;  
;  
;  
; GENERAL INFORMATION:  
; APPLICANT: Edwards, Cynthia A.







MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/050,478
FILING DATE: 26-OCT-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/02908
FILING DATE: 29-MAR-1993
CLASSIFICATION: 435
APPLICATION NUMBER: US 07/858,747
FILING DATE: 27-MAR-1992
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: MORRY, MARY J.
REGISTRATION NUMBER: 34,398
REFERENCE/DOCKET NUMBER: 2026-4006US1
TELEPHONE: (212)751-6849
TELEFAX: (212)751-6849
INFORMATION FOR SEQ ID NO: 47:
SEQUENCE CHARACTERISTICS:
LENGTH: 48 BASE PAIRS
TYPE: NUCLEIC ACID
STRANDEDNESS: SINGLE
TOPOLOGY: LINEAR
US-08-050-478-47

Query Match 1.2%; Score 20.4; DB 2; Length 48;
Best Local Similarity 71.1%; Pred. No. 1.7e+04;
Matches 27; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
QY 325 GAGATTGTGCACGAGACTTGAAGTGGGGTCTGATGG 362
||||| ||||| ||| ||||| ||||| |||||
Db 7 GAGACGGTCCCGTGAAGTTGAAGCGCGGGGATGGATGG 44

RESULT 15
US-09-414-117-47
Sequence 47, Application US/09414117
Patent No. 6291664
GENERAL INFORMATION:
APPLICANT:
APPLICANT:
APPLICANT:
TITLE OF INVENTION: METHOD OF ELIMINATING
TITLE OF INVENTION: INHIBITORY/INSTABILITY REGIONS OF mRNA
NUMBER OF SEQUENCES: 130
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/414,117
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/850,049
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/02908

FILING DATE: 29-MAR-1993
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/858,747
FILING DATE: 27-MAR-1992
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: MORRY, MARY J.
REGISTRATION NUMBER: 34,398
REFERENCE/DOCKET NUMBER: 2026-4006US1
TELEPHONE: (212)751-6849
TELEFAX: (212)751-6849
INFORMATION FOR SEQ ID NO: 47:
SEQUENCE CHARACTERISTICS:
LENGTH: 48 BASE PAIRS
TYPE: NUCLEIC ACID
STRANDEDNESS: SINGLE
TOPOLOGY: LINEAR
US-09-414-117-47
Query Match 1.2%; Score 20.4; DB 4; Length 48;
Best Local Similarity 71.1%; Pred. No. 1.7e+04;
Matches 27; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
QY 325 GAGATTGTGCACGAGACTTGAAGTGGGGTCTGATGG 362
||||| ||||| ||| ||||| ||||| |||||
Db 7 GAGACGGTCCCGTGAAGTTGAAGCGCGGGGATGGATGG 44
Search completed: March 4, 2003, 00:52:00
Job time : 80 secs





QY 577 GTCAGCCTATCTGAGATTGGCTTTGGGAAC 60

;; PRIOR APPLICATION NUMBER: US  
: PRIOR FILING DATE: 2000-03-07

TYPE: NUCLEIC ACID

7





```
; APPLICANT: Mandrekar, Michelle
; APPLICANT: Kephart, Daniel
; APPLICANT: Rhodes, Richard B.
; APPLICANT: Andrews, Christine A.
; APPLICANT: Hartnett, James R.
; APPLICANT: Gu, Trent
; APPLICANT: Olson, Ryan J.
; APPLICANT: Wood, Keith W.
; APPLICANT: Welch, Roy
; TITLE OF INVENTION: Nucleic Acid Detection
; FILE REFERENCE: Pro-103 6868/75528
; CURRENT APPLICATION NUMBER: US/09/190,417
; CURRENT FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: 09/358,972
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: 09/042,287
; PRIOR FILING DATE: 1998-03-13
; NUMBER OF SEQ ID NOS: 290
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 235
; LENGTH: 42
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:probe for oligo
; OTHER INFORMATION: 54
; US-09-790-417-235

Query Match      1.1%; Score 19.6; DB 10; Length 42;
Best Local Similarity 66.7%; Pred. No. 3.5e+04;
Matches 28; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

Qy 759 GTCCTGCTCAAGGAGCTCAAGCCCAACATCGTTACGCT 800
      ||||| ||||| ||||| ||||| ||||| |||||
Db 42 GTACCTGGTAATGAATCACTCCCAAGATATCATCACCACCT 1

RESULT 10
US-10-073-256-27/c
; Sequence 27, Application US/10073256
; Patent No. US20020120408A1
; GENERAL INFORMATION:
; APPLICANT: Kreiswirth, Barry N
; APPLICANT: Nadich, Steven M
; TITLE OF INVENTION: System and Method for Tracking and Controlling Infections
; FILE REFERENCE: 19124.0002
; CURRENT APPLICATION NUMBER: US/10/073,256
; CURRENT FILING DATE: 2002-02-13
; NUMBER OF SEQ ID NOS: 80
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 27
; LENGTH: 45
; TYPE: DNA
; ORGANISM: Enterococcus faecalis
US-10-073-256-27

Query Match      1.1%; Score 19.4; DB 12; Length 45;
Best Local Similarity 64.4%; Pred. No. 4.1e+04;
Matches 29; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

Qy 1288 ATCTGTCCCAACGAGGAGTTCAAGACATACAACTACCCCAAGTAC 1332
      ||||| ||||| ||||| ||||| ||||| |||||
Db 45 AACCGGAAACCAAGTAGTACCAGCGAAGTAGTACCTCAAGTAC 1

RESULT 11
US-10-073-256-35/c
; Sequence 35, Application US/10073256
; Patent No. US20020120408A1
; GENERAL INFORMATION:
; APPLICANT: Kreiswirth, Barry N
; APPLICANT: Nadich, Steven M
; TITLE OF INVENTION: System and Method for Tracking and Controlling Infections
```

```
; FILE REFERENCE: 19124.0002
; CURRENT APPLICATION NUMBER: US/10/073,256
; CURRENT FILING DATE: 2002-02-13
; NUMBER OF SEQ ID NOS: 80
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 35
; LENGTH: 45
; TYPE: DNA
; ORGANISM: Enterococcus faecalis
US-10-073-256-35

Query Match      1.1%; Score 19.4; DB 12; Length 45;
Best Local Similarity 64.4%; Pred. No. 4.1e+04;
Matches 29; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

Qy 1288 ATCTGTCCCAACGAGGAGTTCAAGACATACAACTACCCCAAGTAC 1332
      ||||| ||||| ||||| ||||| ||||| |||||
Db 45 AACCAAGTGAACCAAGTAGTACAAAGCGAAGCAGCACCTCAAGTAC 1

RESULT 12
US-09-801-274-517
; Sequence 517, Application US/09801274
; Patent No. US20020032319A1
; GENERAL INFORMATION:
; APPLICANT: Cargill, Michele
; APPLICANT: Ireland, James S.
; APPLICANT: Lander, Eric S.
; TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS
; FILE REFERENCE: 2825.2009-001
; CURRENT APPLICATION NUMBER: US/09/801,274
; CURRENT FILING DATE: 2001-03-07
; PRIOR APPLICATION NUMBER: US 60/187,510
; PRIOR FILING DATE: 2000-03-07
; PRIOR APPLICATION NUMBER: US 60/206,129
; PRIOR FILING DATE: 2000-05-22
; NUMBER OF SEQ ID NOS: 1802
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 517
; LENGTH: 31
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-801-274-517

Query Match      1.1%; Score 19.2; DB 10; Length 31;
Best Local Similarity 80.8%; Pred. No. 3.9e+04;
Matches 21; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy 1190 CCACAGCGCGTCCCTCTTTCGGGC 1215
      ||||| ||||| ||||| |||||
Db 5 CCACAGCGCTTCCCTCTTTCGGGC 30

RESULT 13
US-09-263-959-121/c
; Sequence 121, Application US/09263959
; Patent No. US20020150891A1
; GENERAL INFORMATION:
; APPLICANT: Hood, Leroy E.
; APPLICANT: Rowen, Lee
; APPLICANT: Koop, Ben F.
; TITLE OF INVENTION: DIAGNOSTIC AND THERAPEUTIC COMPOSITIONS AND METHODS WHICH U
; NUMBER OF SEQUENCES: 1279
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Seed and Berry LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: US
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
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GenCore version 5.1.4.p5.4578  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 3, 2003, 22:34:05 ; Search time 2628 seconds  
(without alignments)  
10753.853 Million cell updates/sec

Title: US-10-017-621-3  
Perfect score: 1745  
Sequence: 1 tggagcagcgtaaagatg.....gttcactgcccactgtgcc 1745

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 16154066 seqs, 8097743376 residues  
Total number of hits satisfying chosen parameters: 102860

Minimum DB seq length: 0  
Maximum DB seq length: 50

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : EST:\*

1:	em_estba:*
2:	em_esthum:*
3:	em_estin:*
4:	em_estnu:*
5:	em_estov:*
6:	em_estpl:*
7:	em_estro:*
8:	em_htc:*
9:	gb_estl:*
10:	gb_est2:*
11:	gb_htc:*
12:	gb_est3:*
13:	gb_est4:*
14:	gb_est5:*
15:	em_estfun:*
16:	em_estom:*
17:	gb_gss:*
18:	em_gss_hum:*
19:	em_gss_inv:*
20:	em_gss_pln:*
21:	em_gss_vrt:*
22:	em_gss_fun:*
23:	em_gss_mam:*
24:	em_gss_mus:*
25:	em_gss_other:*
26:	em_gss_pro:*
27:	em_gss_rod:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	45	2.6	46	14 N78054	N78054 YV71905.r1
2	28	1.6	28	14 R38968	R38968 YG07C08.s1
3	23.2	1.3	48	10 AW247978	AW247978 2819657.5
4	21.4	1.2	50	9 AU107934	AU107934 AU107934
5	21.2	1.2	36	17 A2346286	A2346286 IM0081C01
6	21	1.2	50	9 AU102877	AU102877 AU102877

C 7	21	1.2	50	9	AU105237	AU105237
C 8	21	1.2	50	13	BM397711	BM397711 5009-0-35
C 9	20.8	1.2	46	17	AZ993993	AZ993993 2M0279E13
C 10	20.6	1.2	47	17	AZ311362	AZ311362 1M0026F16
C 11	20.6	1.2	50	9	AU106960	AU106960 AU106960
C 12	20.4	1.2	47	17	AZ331536	AZ331536 1M0059H04
C 13	20.2	1.2	45	17	AZ985975	AZ985975 2M0268F01
C 14	20.2	1.2	49	9	AZ204601	AZ204601 mu25C05.r
C 15	20	1.1	40	9	A1475974	A1475974 t196b06.x
C 16	20	1.1	50	17	BH811451	BH811451 SALK_0586
C 17	19.8	1.1	49	14	W39000	W39000 zb29b05.r1
C 18	19.4	1.1	50	9	AU104829	AU104829 AU104829
C 19	19.2	1.1	44	12	BG422154	BG422154 602448881
C 20	19.2	1.1	49	17	AZ450961	AZ450961 1M0250B05
C 21	19.2	1.1	50	9	AU103357	AU103357 AU103357
C 22	19.2	1.1	50	9	AU103358	AU103358 AU103358
C 23	19.2	1.1	50	9	AU103359	AU103359 AU103359
C 24	19.2	1.1	50	9	AU103361	AU103361 AU103361
C 25	19.2	1.1	50	9	AU103381	AU103381 AU103381
C 26	19.2	1.1	50	9	AU103915	AU103915 AU103915
C 27	19.2	1.1	50	9	AU106349	AU106349 AU106349
C 28	19.2	1.1	50	14	T74703	T74703 yc6g05.s1
C 29	19	1.1	43	9	A1591257	A1591257 tt75c06.x
C 30	19	1.1	49	17	AZ423762	AZ423762 1M0203E22
C 31	19	1.1	50	9	AU107320	AU107320 AU107320
C 32	18.8	1.1	34	9	AA972479	AA972479 op42c10.s
C 33	18.8	1.1	43	17	BH857724	BH857724 SALK_0159
C 34	18.8	1.1	46	17	BH790015	BH790015 SALK_0529
C 35	18.8	1.1	50	9	AU102939	AU102939 AU102939
C 36	18.8	1.1	50	9	AU103583	AU103583 AU103583
C 37	18.8	1.1	50	9	AU104587	AU104587 AU104587
C 38	18.8	1.1	50	9	AU105918	AU105918 AU105918
C 39	18.6	1.1	44	17	TA185G05Q	TA185G05Q
C 40	18.6	1.1	45	9	A1250043	A1250043 qx48f02.x
C 41	18.6	1.1	49	17	AZ966392	AZ966392 2M0236B20
C 42	18.6	1.1	50	9	AU103382	AU103382 AU103382
C 43	18.6	1.1	50	9	AU103553	AU103553 AU103553
C 44	18.6	1.1	50	9	AU104162	AU104162 AU104162
C 45	18.6	1.1	50	13	BI910989	BI910989 603069394

ALIGNMENTS

RESULT 1  
N78054  
LOCUS N78054 46 bp mRNA linear EST 28-JAN-1997  
DEFINITION YV71905.r1 Soares fetal liver spleen INFLS Homo sapiens CDNA clone  
IMAGE:248216 5' similar to gb:X66363 SERINE/THREONINE-PROTEIN  
KINASE PCTAIRE-1 (HUMAN);, mRNA sequence.  
ACCESSION N78054.1 GI:1240755  
VERSION N78054  
KEYWORDS EST.  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
REFERENCE 1 (bases 1 to 46)  
AUTHORS Hillier, L., Lennon, G., Becker, M., Bonaldo, M.F., Chiapelli, B.,  
Chissoe, S., Dietrich, N., DuBuque, T., Favello, A., Gish, W., Hawkins  
, M., Hultman, M., Kucaba, T., Lacy, M., Le, M., Le, N., Le, N., Moore  
, B., Morris, M., Parsons, J., Prange, C., Rifkin, L., Rohlfing, T.,  
Schellenberg, K., Soares, M.B., Tan, F., Thierry-Mieg, J., Trevaskis, E.,  
Underwood, K., Wohlmann, P., Waterston, R., Wilson, R. and Marra, M.  
Generation and analysis of 280,000 human expressed sequence tags  
Genome Res. 6 (9), 807-828 (1996)  
9704478  
Contact: Wilson RK  
Washington University School of Medicine  
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
Tel: 314 286 1800  
Fax: 314 286 1810  
Email: est@watson.wustl.edu

This clone is available royalty-free through LLNL ; contact the IMAGE Consortium (info@image.llnl.gov) for further information.  
Trace considered overall poor quality  
Insert Length: 1438 Std Error: 0.00  
Seq primer: reverse ET  
High quality sequence stop: 1.  
Location/Qualifiers

## FEATURES

source

```

1. .46
/organism="Homo sapiens"
/db_xref="GDB:397462"
/db_xref="taxon:9606"
/clone="IMAGE:248216"
/clone_lib="Soares fetal liver spleen INFLS"
/sex="male"
/dev_stage="20 week-post conception fetus"
/lab_host="DH10B (ampicillin resistant)"
/notes="Organ: Liver and Spleen; Vector: p7T3D (Pharmacia) with a modified polylinker; Site_1: Pac I; Site_2: Eco RI; 1st strand cDNA was primed with a Pac I - oligo(dT) primer [5' AACTGGAAGAATTAATTAAGATCTTTTTTTTTTTTTTTT 3'], double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Pac I and cloned into the Pac I and Eco RI sites of the modified p7T3 vector. Library went through one round of normalization. Library constructed by Bento Soares and M.Fatima Bonaldo."
6 a 20 c 7 g 12 t 1 others

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## BASE COUNT

ORIGIN

```

Query Match      2.68; Score 45; DB 14; Length 46;
Best Local Similarity 97.8%; Pred. No. 0.78;
Matches 45; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1700 ACTCTCTGCTACCGCTGAGCCATGTTACCTGCCACCTGTGCT 1745
|||||
Db 1 ACTCTCTGCTACCGCTGAGCCATGTTACCTGCCACCTGTGCTCC 46

```

## RESULT 2

R38968/c

LOCUS

```

DEFINITION      Yd07c08.s1 Soares infant brain INIB Homo sapiens cDNA clone
IMAGE:25073 3' similar to gb:X66363 SERINE/THREONINE-PROTEIN KINASE
PCFAIRE-1 (HUMAN);, mRNA sequence.

```

ACCESSION

R38968

VERSION

R38968.1

GI:796424

KEYWORDS

EST.

SOURCE

human.

ORGANISM

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE

AUTHORS

Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M., Holman

M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Marra,M., Parsons,J.,

Rifkin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston

R., Williamson,A., Wohlmann,P. and Wilson,R.

The WashU-Merck EST Project

Unpublished (1995)

Contact: Wilson RK

Washington University School of Medicine

4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108

Tel: 314 286 1800

Fax: 314 286 1810

Email: est@watson.wustl.edu

Insert Size: 1349

High quality sequence starts: 1

High quality sequence stops: 1

Source: IMAGE Consortium, LLNL This clone is available royalty-free

through LLNL ; contact the IMAGE Consortium (info@image.llnl.gov)

for further information. Trace considered overall poor quality

Insert Length: 1349 Std Error: 0.00

Seq primer: -2Jm13

High quality sequence stop: 1.

Location/Qualifiers

1. .28

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/organism="Homo sapiens"
/db_xref="GDB:397420"
/db_xref="taxon:9606"
/clone="IMAGE:25073"
/clone_lib="Soares infant brain INIB"
/sex="female"
/dev_stage="73 days post natal"
/lab_host="DH10B (ampicillin resistant)"
/notes="Organ: whole brain; Vector: Lfamid BA; Site_1: Not I; Site_2: Hind III; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5' AACTGGAAGAATTCGCCGACGAGATTTTTTTTTTTTTTTT 3']; double-stranded cDNA was ligated to Hind III adaptors (Pharmacia), digested with Not I and directionally cloned into the Not I and Hind III sites of the Lfamid BA vector. Library went through one round of normalization. Library constructed by Bento Soares and M.Fatima Bonaldo."
8 a 5 c 11 g 4 t

```

## BASE COUNT

ORIGIN

```

Query Match      1.6%; Score 28; DB 14; Length 28;
Best Local Similarity 100.0%; Pred. No. 9.1e+03;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1716 CCTGAGCCATGTTACCTGCCACCTGTGT 1743
|||||
Db 28 CCTGAGCCATGTTACCTGCCACCTGTGT 1

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## RESULT 3

AW247978

LOCUS

DEFINITION

mRNA sequence.

ACCESSION

AW247978

VERSION

AW247978.1

GI:6591066

KEYWORDS

EST.

SOURCE

human.

ORGANISM

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE

AUTHORS

NIH-MGC http://mgc.nci.nih.gov/.

National Institutes of Health, Mammalian Gene Collection (MGC)

Other ESTs: 2819657.3prime

Unpublished (1999)

Contact: Robert Strausberg, Ph.D.

Email: cgaeps-r@mail.nih.gov

Tissue Procurement: DCTD/DPD cDNA Library Preparation: Ling

Hong/Rubin Laboratory cDNA Library Arrayed by: The I.M.A.G.E.

Consortium (LLNL) DNA Sequencing by: Berkeley MGC sequencing

Project Clone distribution: MGC clone distribution information can

be found through the I.M.A.G.E. Consortium/LLNL at:

www-bio.llnl.gov/bbrp/image/image.html base Calling / Quality

Scores: PHRED from University of Washington Genome Center. Vector

Trimming: cross\_match from University of Washington Genome Center

PHRAP suite. Poly-T Identification: patMatch.pl from Berkeley

Drosophila Genome Project. University of Washington Genome Center:

http://www.genome.washington.edu Low Quality Sequence: 8 contiguous

PHRED high quality bases following vector sequence. Very Low

Quality Sequence: Trace file contained 48 contiguous distinct peaks

following vector sequence.

Plate: LLCM2 row: C column: 18

High quality sequence stop: 8.

Location/Qualifiers

1. .48

/organism="Homo sapiens"

/db\_xref="taxon:9606"

/clone="IMAGE:2819657"

/clone\_lib="NIH MGC 7"

/tissue\_type="small cell carcinoma"

/cell\_line="MGC3"

/lab\_host="DH10B (phage-resistant)"

## FEATURES

source

/note="Organ: lung; Vector: pOTB7; Site\_1: XhoI; Site\_2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGAG(S). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies)."

BASE COUNT 11 a 14 c 17 g 6 t

ORIGIN

Query Match 1.3%; Score 23.2; DB 10; Length 48;  
Best Local Similarity 77.8%; Pred. No. 1.8e+05;  
Matches 28; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1573 TCAGGAGCGCAGCTTCCGCGTGGTGACACCGAG 1608  
||||||| || ||| ||||| ||| ||| |||||

Db 11 TCAGGCAATCCTGCTCTCGCGCTGGGGAACAGCGAG 46

RESULT 4  
LOCUS AU107934 50 bp mRNA linear EST 30-AUG-2001  
DEFINITION AU107934 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone  
HSI01159, mRNA sequence.

ACCESSION AU107934.1 GI:13557456  
VERSION AU107934  
KEYWORDS EST.  
SOURCE human.

ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
1 (bases 1 to 50)

AUTHORS Suzuki.Y., Taira.H., Tsunoda.T., Mizushima-Sugano.J., Sese.J., Hata  
,H., Oka.T., Isogai.T., Tanaka.T., Morishita.S., Okubo.K., Sakaki  
,Y., Nakamura.Y., Suyama.A. and Sugano,S.

TITLE Diverse transcriptional initiation revealed by fine, large-scale  
mapping of mRNA start sites

JOURNAL EMBO Rep. 2 (5), 388-393 (2001)

MEDLINE 21270072  
COMMENT Contact: Yutaka Suzuki  
Department of Virology  
Institute of Medical Science, University of Tokyo  
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan  
Email: yszukie@ims.u-tokyo.ac.jp  
Suzuki.Y., Yoshitomo-Nakagawa.K., Maruyama.K., and Sugano  
,S. Construction and characterization of a full length-enriched and  
a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

FEATURES  
source

1..50  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="HSI01159"

/note="Differential display comparison of untreated and  
dimethylfumarate treated U937 cells"

BASE COUNT 7 a 9 c 25 g 9 t

ORIGIN

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Best Local Similarity 80.6%; Pred. No. 5.1e+05;  
Matches 25; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 227 AGAGTGGTGGTGGCGGCGAGTACCCTGG 257  
||||||| ||||| ||||| ||||| ||| |||

Db 1 AGAGTGGAGTGGTGGCGGCGGCGCTTTGG 31

RESULT 5  
LOCUS AU107934 36 bp DNA linear GSS 29-SEP-2000  
DEFINITION IM0081C01R Mouse 10kb plasmid UUGC1M library Mus musculus genomic  
clone UUGC1M0081C01 R, DNA sequence.

ACCESSION AU346286  
VERSION AU346286.1 GI:10425619  
KEYWORDS GSS.  
SOURCE house mouse.  
ORGANISM Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
1 (bases 1 to 36)  
Dunn.D., Aoyagi.A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,  
Islam.H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly  
,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.  
and Wright,D., Weiss,R.  
Mouse whole genome scaffolding with paired end reads from 10kb  
plasmid inserts  
Unpublished (2000)  
Contact: Robert B. Weiss  
University of Utah Genome Center  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT  
84112, USA  
Tel: 801 585 5606  
Fax: 801 585 7177  
Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0081 row: C column: 01  
Seq primer: CACACGAGAAACAGCTATGACC  
Class: plasmid ends  
High quality sequence stop: 36.

FEATURES  
source

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/organism="Mus musculus"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UUGC1M0081C01"  
/clone\_lib="Mouse 10kb plasmid UUGC1M library"  
/sex="Male"  
/lab\_host="E. Coli strain XL10-Gold, TI-resistant, F-"  
/note="Vector: PWD42nv; Purified genomic DNA from M.  
musculus C57BL/6J (male) was obtained from the Jackson  
Laboratory Mouse DNA Resource  
(http://www.jax.org/resources/documents/dnares/). The DNA  
was hydrodynamically sheared by repeated passage through a  
0.005 inch orifice at constant velocity. The sheared DNA  
was blunt end-repaired with T4 DNA polymerase and T4  
polynucleotide kinase. Adaptor oligonucleotides were  
ligated to the blunt ends in high molar excess. The  
adapted DNA was purified and size-selected for a 9.5 to  
10.5 kb range using preparative agarose gel  
electrophoresis. Vector DNA was prepared from a derivative  
of pWD42 (gii4732114|gbiAF129072.1), a copy-number  
inducible derivative of plasmid R1. The vector was ligated  
with adaptors complementary to the insert adaptors and  
purified. The sheared, adapted mouse DNA was annealed to  
adapted vector DNA, and transformed into  
chemically-competent E. coli XL10-Gold (Stratagene) cells  
and selected for ampicillin resistance."

BASE COUNT 3 a 4 c 16 g 13 t

ORIGIN

Query Match 1.2%; Score 21.2; DB 17; Length 36;  
Best Local Similarity 76.5%; Pred. No. 4.8e+05;  
Matches 26; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 212 AGATAGGCTGGATGAGAGTGGTGGTGGCGG 245  
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Db 1 AGATTTCTCTGCCTGAGTGGTGGTGGTGGTGG 34

RESULT 6  
LOCUS AU102877 50 bp mRNA linear EST 30-AUG-2001  
DEFINITION AU102877 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone  
COL03075, mRNA sequence.

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ACCESSION      AU102877
VERSION        AU102877.1  GI:13552398
KEYWORDS       EST.
SOURCE         human.
ORGANISM       Homo sapiens
               Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
               Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE      1 (bases 1 to 50)
AUTHORS        Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata
               ,Y., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki
               ,Y., Nakamura,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano
               ,S. Construction and characterization of a full length-enriched and
               a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
TITLE          Diverse transcriptional initiation revealed by fine, large-scale
               mapping of mRNA start sites
JOURNAL        EMBO Rep. 2 (5), 388-393 (2001)
MEDLINE        21270072
COMMENT        Contact: Yutaka Suzuki
               Department of Virology
               Institute of Medical Science, University of Tokyo
               4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
               Email: ysuzuki@ims.u-tokyo.ac.jp
               ,S. Construction and characterization of a full length-enriched and
               a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
FEATURES       source
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               /organism="Homo sapiens"
               /db_xref="taxon:9606"
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               /note="Differential display comparison of untreated and
               dmethylfumarate treated U937 cells"
BASE COUNT     11 a      20 c      10 g      9 t
ORIGIN
Query Match    1.2%; Score 21; DB 9; Length 50;
Best Local Similarity 82.8%; Pred. No. 6.3e+05;
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 491 ACATCCGGCTGCTGAGGCTACCTGGAG 519
      ||||| ||||| ||||| ||||| ||
Db 1 ACATCCAGCTGCTGAGACCTTCTCGCAG 29

RESULT 7
AU105237/c
LOCUS          AU105237 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
DEFINITION    HRC08919, mRNA sequence.
ACCESSION     AU105237
VERSION       AU105237.1  GI:13554758
KEYWORDS      EST.
SOURCE        human.
ORGANISM      Homo sapiens
               Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
               Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE      1 (bases 1 to 50)
AUTHORS        Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata
               ,H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki
               ,Y., Nakamura,Y., Suyama,A. and Sugano,S.
               Diverse transcriptional initiation revealed by fine, large-scale
               mapping of mRNA start sites
JOURNAL        EMBO Rep. 2 (5), 388-393 (2001)
MEDLINE        21270072
COMMENT        Contact: Yutaka Suzuki
               Department of Virology
               Institute of Medical Science, University of Tokyo
               4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
               Email: ysuzuki@ims.u-tokyo.ac.jp
               ,S. Construction and characterization of a full length-enriched and
               a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
FEATURES       source
               1..50
               /organism="Homo sapiens"
               /db_xref="taxon:9606"
               /clone="COL03075"
               /note="Differential display comparison of untreated and
               dmethylfumarate treated U937 cells"
BASE COUNT     11 a      20 c      10 g      9 t
ORIGIN
Query Match    1.2%; Score 21; DB 9; Length 50;
Best Local Similarity 82.8%; Pred. No. 6.3e+05;
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 491 ACATCCGGCTGCTGAGGCTACCTGGAG 519
      ||||| ||||| ||||| ||||| ||
Db 1 ACATCCAGCTGCTGAGACCTTCTCGCAG 29

RESULT 7
AU105237/c
LOCUS          AU105237 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
DEFINITION    HRC08919, mRNA sequence.
ACCESSION     AU105237
VERSION       AU105237.1  GI:13554758
KEYWORDS      EST.
SOURCE        human.
ORGANISM      Homo sapiens
               Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
               Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE      1 (bases 1 to 50)
AUTHORS        Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata
               ,H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki
               ,Y., Nakamura,Y., Suyama,A. and Sugano,S.
               Diverse transcriptional initiation revealed by fine, large-scale
               mapping of mRNA start sites
JOURNAL        EMBO Rep. 2 (5), 388-393 (2001)
MEDLINE        21270072
COMMENT        Contact: Yutaka Suzuki
               Department of Virology
               Institute of Medical Science, University of Tokyo
               4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
               Email: ysuzuki@ims.u-tokyo.ac.jp
               ,S. Construction and characterization of a full length-enriched and
               a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
FEATURES       source
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               /organism="Homo sapiens"
               /db_xref="taxon:9606"
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               /note="Differential display comparison of untreated and
               dmethylfumarate treated U937 cells"

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/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="HRC08919"
/note="Differential display comparison of untreated and
dmethylfumarate treated U937 cells"
BASE COUNT     13 a      10 c      22 g      5 t
ORIGIN
Query Match    1.2%; Score 21; DB 9; Length 50;
Best Local Similarity 82.8%; Pred. No. 6.3e+05;
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 558 CAGCGCGCGCTCCGTCGTCGTCGAGCCTAT 586
      ||||| ||||| || ||||| |||||
Db 35 CAGTCGCGCGCCATCCTGTCGCGCCTAT 7

RESULT 8
BM397711/c
LOCUS          BM397711 50 bp mRNA linear EST 17-JAN-2002
DEFINITION    5009-0-35-H11.t.2 Chilcoat/Turkewitz cDNA (large fraction)
               Tetrahymena thermophila cDNA, mRNA sequence.
ACCESSION     BM397711
VERSION       BM397711.1  GI:18197764
KEYWORDS      EST.
SOURCE        Tetrahymena thermophila.
ORGANISM      Tetrahymena thermophila.
               Eukaryota; Alveolata; Ciliophora; Oligohymenophorea;
               Hymenostomatida; Tetrahymenina; Tetrahymena.
REFERENCE      1 (bases 1 to 50)
AUTHORS        Turkewitz,A.P., Karrer,K.M., Jahn,K., Orlas,E., Kirk,K.E., Frankel
               ,J. and Klobutcher,L.
               EST from Tetrahymena thermophila, strain CU428.1, growing cells
               Unpublished (2002)
JOURNAL        Contact: Turkewitz AP
               Molecular Genetics and Cell Biology
               University of Chicago
               920 E. 58th Street, Chicago, IL 60637, USA
               Tel: 773 702 4374
               Fax: 773 702 3172
               Email: apturkew@midway.uchicago.edu
               Seq primer: f3.
FEATURES       source
               1..50
               /organism="Tetrahymena thermophila"
               /strain="CU428.1"
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               /note="Vector: Bluescript2 SK+; Details on library
               preparation can be found in Chilcoat and Turkewitz
               (2001) Proc. Natl. Acad. Sci USA, 98: 8709-8713."
BASE COUNT     10 a      7 c      23 g      2 t      8 others
ORIGIN
Query Match    1.2%; Score 21; DB 13; Length 50;
Best Local Similarity 60.0%; Pred. No. 6.3e+05;
Matches 27; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

Qy 82 CCCCGGGCTCTGAGTTGCTCGCGGCCCGCCGCGGATCGGCATG 126
      ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 50 CCCCGGACTCCAGCTTTGTCCNCNCNNNNNGGCTCTCCCTG 6

RESULT 9
AZ993993
LOCUS          AZ993993 46 bp DNA linear GSS 27-APR-2001
DEFINITION    2M0279E13F Mouse 10kb plasmid UUC2M library Mus musculus genomic
               clone UUC2M0279E13 F, DNA sequence.
ACCESSION     AZ993993
VERSION       AZ993993.1  GI:13865220
KEYWORDS      GSS.
SOURCE        house mouse.

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ORGANISM	Mus musculus
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 46)
AUTHORS	Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.
TITLE	Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
JOURNAL	Unpublished (2000)
COMMENT	Contact: Robert B. Weiss University of Utah Genome Center Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA Tel: 801 585 5606 Fax: 801 585 7177 Email: ddunn@genetics.utah.edu Insert Length: 10000 Std Error: 0.00 Plate: 0279 row: E column: 13 Seq primer: CTTGTAAACGAGCGCCAGT Class: plasmid ends High quality sequence stop: 46.
FEATURES	Location/Qualifiers 1..46 /organism="Mus musculus" /strain="C57BL/6J" /db_xref="taxon:10090" /clone="UUGC2M0279E13" /clone_lib="Mouse 10kb plasmid UUGC2M library" /sex="Female" /lab_host="E. coli strain XL10-Gold, Tl-resistant, F-" /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (female) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi14732114 gb AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
BASE COUNT	8 a 0 c 23 g 15 t
ORIGIN	
Query Match	1.2%; Score 20.8; DB 17; Length 46;
Best Local Similarity	70.0%; Pred. No. 6.8e+05;
Matches	28; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
QY	223 GATGAGTGGGGTGGGGCGGCAGTGACCCCTGGAGG 262 
Db	3 GATGATGGGGTGGGGTGGGTGATGATGATGATG 42 
RESULT 10	
LOCUS	AZ311362
DEFINITION	IM0026F16R Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0026F16 R, DNA sequence.
ACCESSION	AZ311362
VERSION	AZ311362.1
KEYWORDS	GSS. GI:10354248
SOURCE	house mouse.

ORGANISM	Mus musculus
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 46)
AUTHORS	Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D.,Weiss,R.
TITLE	Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
JOURNAL	Unpublished (2000)
COMMENT	Contact: Robert B. Weiss University of Utah Genome Center Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA Tel: 801 585 5606 Fax: 801 585 7177 Email: ddunn@genetics.utah.edu Insert Length: 10000 Std Error: 0.00 Plate: 0279 row: E column: 13 Seq primer: CTTGTAAACGAGCGCCAGT Class: plasmid ends High quality sequence stop: 48.
FEATURES	Location/Qualifiers 1..48 /organism="Mus musculus" /strain="C57BL/6J" /db_xref="taxon:10090" /clone="UUGC1M0026F16" /clone_lib="Mouse 10kb plasmid UUGC1M library" /sex="Male" /lab_host="E. Coli strain XL10-Gold, Tl-resistant, F-" /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi14732114 gb AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
BASE COUNT	18 a 9 c 6 g 15 t
ORIGIN	
Query Match	1.2%; Score 20.6; DB 17; Length 48;
Best Local Similarity	67.4%; Pred. No. 7.8e+05;
Matches	29; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
QY	1499 CTACTTCATATTTGCACCTAAAGGAGATTTCAGCTACAAAAGGA 1541 
Db	5 CTAATGTCATGTTTCTACTGAAGTAGAATCACCAATTAAGA 47 
RESULT 11	
LOCUS	AU106960/c
DEFINITION	AU106960 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone CAS09689, mRNA sequence.
ACCESSION	AU106960
VERSION	AU106960.1
KEYWORDS	EST. GI:13556481
SOURCE	human.



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/clone="IMAGE:2154899"
/clone_lib="NCI_CGAP_C

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/clone_lib="NCI_CGAP_C014"
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/tissue\_type="moderately-differentiated adenocarcinoma"  
/lab\_host="DH10B"  
/note="Organ: colon; Vector: pCMV-SPORT6; Site\_1: SalI;  
Site\_2: NotI; Cloned unidirectionally. Primer: Oligo dT.  
Average insert size 1.7 kb. Life Technologies catalog #:  
11531-019"

BASE COUNT 9 a 13 c 14 g 4 t  
ORIGIN

Query Match 1.18; Score 20; DB 9; Length 40;  
Best Local Similarity 72.2%; Pred. No. 1e+06;  
Matches 26; Conservative 0; Mismatches 10; Indels 0; Gaps 0;  
QY 232 GGTGGTGGGGCGGAGTGACCCCTGGAGAGGCCCCC 267  
Db 39 GGTGGTGGTGTCTTTACCAACCCCTGGTACCCCCC 4

Search completed: March 4, 2003, 00:50:32  
Job time : 2635 secs